

(f) a polynucleotide completely complementary to a polynucleotide in (a), (b), (c), (d), or (e) above.

205. (Amended) The isolated nucleic acid molecule of claim 199, wherein said polynucleotide is SEQ ID NO: [55]1.

206. (Amended) The isolated nucleic acid molecule of claim 201, wherein said epitope-bearing portion comprises amino residues Arg-10 to Arg-17 of SEQ ID NO: [56]2.

207. (Amended) The isolated nucleic acid molecule of claim 201, wherein said epitope-bearing portion comprises amino residues Lys-29 to Ser-39 of SEQ ID NO: [56]2.

208. (Amended) The isolated nucleic acid molecule of claim 201, wherein said epitope-bearing portion comprises amino residues Ser-140 to Ala-153 of SEQ ID NO: [56]2.

209. (Amended) The isolated nucleic acid molecule of claim 201, wherein said epitope-bearing portion comprises amino residues Arg-158 to Tyr-169 of SEQ ID NO: [56]2.

210. (Amended) The isolated nucleic acid molecule of claim 201, wherein said epitope-bearing portion comprises amino residues Asp-175 to Ala-183 of SEQ ID NO: [56]2.

211. (Amended) The isolated nucleic acid molecule of claim 201, wherein said epitope-bearing portion comprises amino residues Gly-216 to Asn-236 of SEQ ID NO: [56]2.

212. (Amended) The isolated nucleic acid molecule of claim 201, wherein said epitope-bearing portion comprises amino residues Ala-261 to Leu-270 of SEQ ID NO: [56]2.

213. (Amended) The isolated nucleic acid molecule of claim 201, wherein said epitope-bearing portion comprises amino residues Arg-282 to Phe-291 of SEQ ID NO: [56]2.

214. (Amended) The isolated nucleic acid molecule of claim 201, wherein said epitope-bearing portion comprises amino residues Thr-297 to Ala-305 of SEQ ID NO: [56]2.

BEST AVAILABLE COPY

215. (Amended) The isolated nucleic acid molecule of claim 201, wherein said epitope-bearing portion comprises amino residues Pro-342 to Gln-362 of SEQ ID NO: [56]2.

216. (Amended) The isolated nucleic acid molecule of claim 201, wherein said epitope-bearing portion comprises amino residues Phe-455 to Asp-463 of SEQ ID NO: [56]2.

217. (Amended) The isolated nucleic acid molecule of claim 201, wherein said epitope-bearing portion comprises amino residues His-497 to Thr-511 of SEQ ID NO: [56]2.

218. (Amended) The isolated nucleic acid molecule of claim 201, wherein said epitope-bearing portion comprises amino residues Ala-521 to Gly-529 of SEQ ID NO: [56]2.

219. (Amended) The isolated nucleic acid molecule of claim 201, wherein said epitope-bearing portion comprises amino residues Ile-537 to Val-546 of SEQ ID NO: [56]2.

220. (Amended) The isolated nucleic acid molecule of claim 201, wherein said epitope-bearing portion comprises amino residues Ile-556 to Ala-568 of SEQ ID NO: [56]2.

221. (Amended) The isolated nucleic acid molecule of claim 201, wherein said epitope-bearing portion comprises amino residues Pro-581 to Ser-595 of SEQ ID NO: [56]2.

222. (Amended) The isolated nucleic acid molecule of claim 201, wherein said epitope-bearing portion comprises amino residues Glu-670 to Ala-685 of SEQ ID NO: [56]2.

223. (Amended) The isolated nucleic acid molecule of claim 201, wherein said epitope-bearing portion comprises amino residues Ser-696 to Ala-705 of SEQ ID NO: [56]2.

224. (Amended) The isolated nucleic acid molecule of claim 201, wherein said epitope-bearing portion comprises amino residues Leu-782 to Ser-791 of SEQ ID NO: [56]2.

BEST AVAILABLE COPY

225. (Amended) The isolated nucleic acid molecule of claim 202, wherein said polynucleotide encodes at least 30 contiguous amino acid residues of amino acid residues 1 to 796 of SEQ ID NO: [56]2.

226. (Amended) The isolated nucleic acid molecule of claim 203, wherein said polynucleotide consists of at least 100 contiguous nucleotides of nucleotides 1-2389 of SEQ ID NO: [55]1.

237. (Amended) An isolated polypeptide comprising a member selected from the group consisting of:

- (a) a polypeptide of amino acid residues 1 to 796 of SEQ ID NO: [56]2;
- (b) a polypeptide of amino acid residues 2 to 796 of SEQ ID NO: [56]2; and
- (c) an epitope-bearing portion of a polypeptide consisting of amino acid residues 1 to 796 of SEQ ID NO: [56]2.

241. (Amended) The isolated polypeptide of claim 240, wherein said epitope-bearing portion comprises amino residues Arg-10 to Arg-17 of SEQ ID NO: [56]2.

242. (Amended) The isolated polypeptide of claim 240, wherein said epitope-bearing portion comprises amino residues Lys-29 to Ser-39 of SEQ ID NO: [56]2.

243. (Amended) The isolated polypeptide of claim 240, wherein said epitope-bearing portion comprises amino residues Ser-140 to Ala-153 of SEQ ID NO: [56]2.

244. (Amended) The isolated polypeptide of claim 240, wherein said epitope-bearing portion comprises amino residues Arg-158 to Tyr-169 of SEQ ID NO: [56]2.

245. (Amended) The isolated polypeptide of claim 240, wherein said epitope-bearing portion comprises amino residues Asp-175 to Ala-183 of SEQ ID NO: [56]2.

246. (Amended) The isolated polypeptide of claim 240, wherein said epitope-bearing portion comprises amino residues Gly-216 to Asn-236 of SEQ ID NO: [56]2.

LAST AVAILABLE COPY

247. (Amended) The isolated polypeptide of claim 240, wherein said epitope-bearing portion comprises amino residues Ala-261 to Leu-270 of SEQ ID NO: [56]2.

248. (Amended) The isolated polypeptide of claim 240, wherein said epitope-bearing portion comprises amino residues Arg-282 to Phe-291 of SEQ ID NO: [56]2.

249. (Amended) The isolated polypeptide of claim 240, wherein said epitope-bearing portion comprises amino residues Thr-297 to Ala-305 of SEQ ID NO: [56]2.

250. (Amended) The isolated polypeptide of claim 240, wherein said epitope-bearing portion comprises amino residues Pro-342 to Gln-362 of SEQ ID NO: [56]2.

251. (Amended) The isolated polypeptide of claim 240, wherein said epitope-bearing portion comprises amino residues Phe-455 to Asp-463 of SEQ ID NO: [56]2.

252. (Amended) The isolated polypeptide of claim 240, wherein said epitope-bearing portion comprises amino residues His-497 to Thr-511 of SEQ ID NO: [56]2.

253. (Amended) The isolated polypeptide of claim 240, wherein said epitope-bearing portion comprises amino residues Ala-521 to Gly-529 of SEQ ID NO: [56]2.

254. (Amended) The isolated polypeptide of claim 240, wherein said epitope-bearing portion comprises amino residues Ile-537 to Val-546 of SEQ ID NO: [56]2.

255. (Amended) The isolated polypeptide of claim 240, wherein said epitope-bearing portion comprises amino residues Ile-556 to Ala-568 of SEQ ID NO: [56]2.

256. (Amended) The isolated polypeptide of claim 240, wherein said epitope-bearing portion comprises amino residues Pro-581 to Ser-595 of SEQ ID NO: [56]2.

BEST AVAILABLE COPY